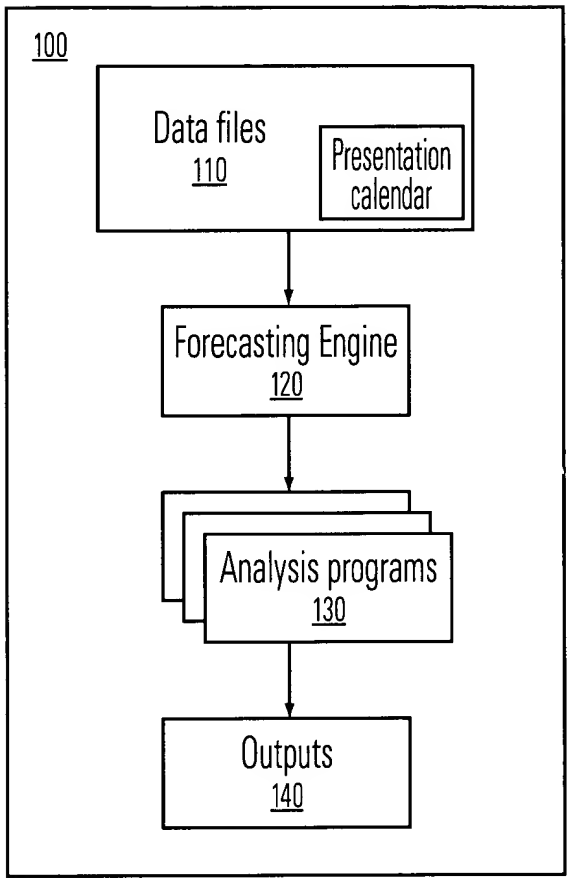
100
Data files
110
Presentation calendar
Forecasting Engine
120
Analysis programs
130
Outputs
140

FIG. 1

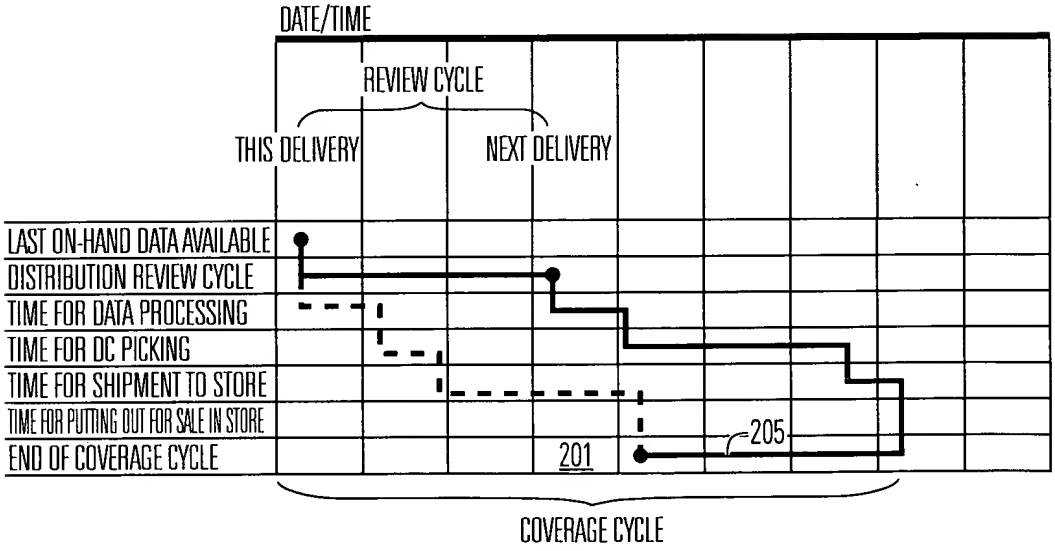
DATE/TIME
REVIEW CYCLE
THIS DELIVERY
NEXT DELIVERY
LAST ON-HAND DATA AVAILABLE
DISTRIBUTION REVIEW CYCLE
TIME FOR DATA PROCESSING
TIME FOR DC PICKING
TIME FOR SHIPMENT TO STORE
TIME FOR PUTTING OUT FOR SALE IN STORE
END OF COVERAGE CYCLE
201
205
COVERAGE CYCLE

FIG. 2

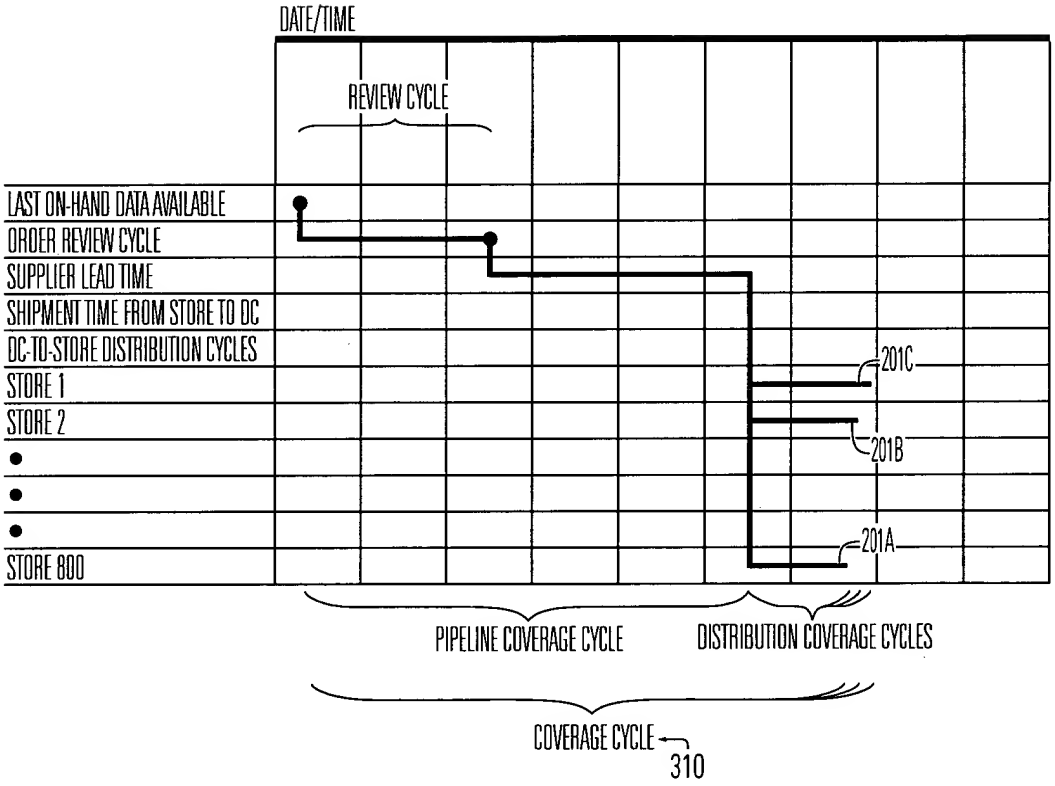
DATE/TIME
REVIEW CYCLE
LAST ON-HAND DATA AVAILABLE
ORDER REVIEW CYCLE
SUPPLIER LEAD TIME
SHIPMENT TIME FROM STORE TO DC
DC-TO-STORE DISTRIBUTION CYCLES
STORE 1
STORE 2
•
•
•
STORE 800
201C
201B
201A
PIPELINE COVERAGE CYCLE
DISTRIBUTION COVERAGE CYCLES
COVERAGE CYCLE
310

FIG. 3

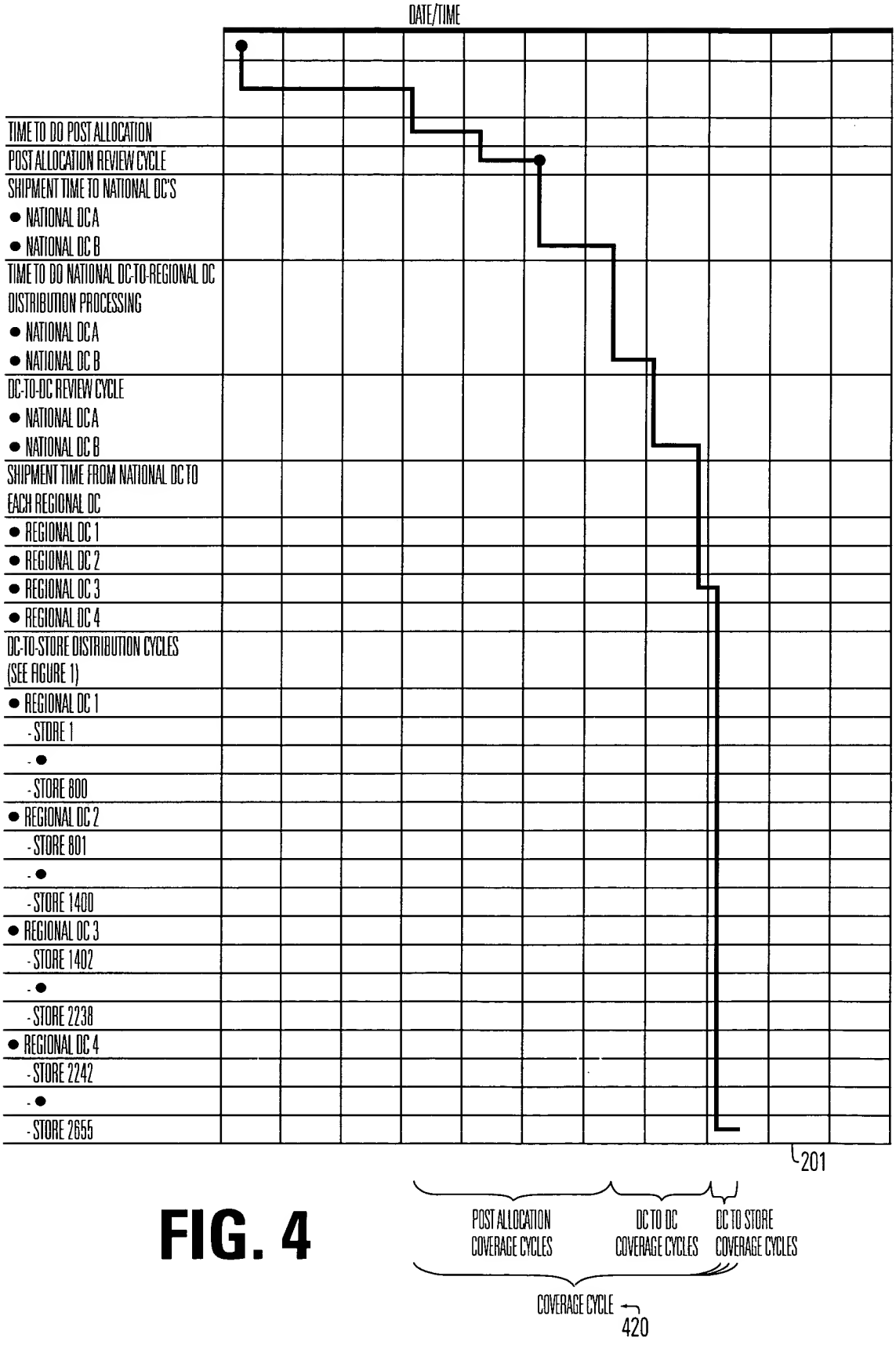
DATE/TIME
TIME TO DO POST ALLOCATION
POST ALLOCATION REVIEW CYCLE
SHIPMENT TIME TO NATIONAL DC'S
• NATIONAL DC A
• NATIONAL DC B
TIME TO DO NATIONAL DC-TO-REGIONAL DC DISTRIBUTION PROCESSING
• NATIONAL DC A
• NATIONAL DC B
DC-TO-DC REVIEW CYCLE
• NATIONAL DC A
• NATIONAL DC B
SHIPMENT TIME FROM NATIONAL DC TO EACH REGIONAL DC
• REGIONAL DC 1
• REGIONAL DC 2
• REGIONAL DC 3
• REGIONAL DC 4
DC-TO-STORE DISTRIBUTION CYCLES (SEE FIGURE 1)
• REGIONAL DC 1
- STORE 1
- •
- STORE 800
• REGIONAL DC 2
- STORE 801
- •
- STORE 1400
• REGIONAL DC 3
- STORE 1402
- •
- STORE 2238
• REGIONAL DC 4
- STORE 2242
- •
- STORE 2655
201
POST ALLOCATION COVERAGE CYCLES
DC TO DC COVERAGE CYCLES
DC TO STORE COVERAGE CYCLES
COVERAGE CYCLE
420

FIG. 4

Item Identifier 505	Location Identifier 525	Presentation Quality 508	Start Date 502	End Date 503
921	301	5	10/12/2000	11/1/2000
921	302	6	10/12/2000	11/1/2000
921	303	8	10/12/2000	11/1/2000
921	304	5	10/12/2000	11/1/2000
921	305	5	10/12/2000	11/1/2000
922	301	8	10/12/2000	11/1/2000
922	302	9	10/12/2000	11/1/2000
922	303	11	10/12/2000	11/1/2000
922	304	8	10/12/2000	11/1/2000
922	305	8	10/12/2000	11/1/2000
⋮	⋮	⋮	⋮	⋮
102490	305	15	2/9/2001	3/1/2001

FIG. 5

		Date Range Identifier		
Item Identifier 505	Location Identifier 525	10/12/2000-11/1/2000 508 606	11/2/2000-11/14/2000	11/15/2000-11/24/2000
921	301	5	10	12
921	302	6	11	9
921	303	8	13	11
921	304	5	10	15
921	305	5	10	12
922	301	8	13	18
922	302	9	14	19
922	303	11	16	18
922	304	8	13	23
922	305	8	13	11
⋮	⋮	⋮	⋮	⋮
102490	305	15	20	31

FIG. 6

Fixture Identifier (720)	Item Identifier (505)	Date Range Identifier 10/12/2000-11/1/2000 (508)	11/2/2000-11/14/2000	11/15/2000-11/24/2000
table 1	921	5	10	12
table 1	922	3	8	6
⋮	⋮	⋮	⋮	⋮
table 1	102490	8	12	22
table 1a	921	6	11	9
table 1a	922	3	8	13
⋮	⋮	⋮	⋮	⋮
table 1a	102490	15	20	31
table 2	921	8	13	11
table 2	922	3	8	13
⋮	⋮	⋮	⋮	⋮
table 2	102490	15	20	31
⋮	⋮	⋮	⋮	⋮
wall 56	921	6	11	13
⋮	⋮	⋮	⋮	⋮
wall 56	102490	15	20	31

750

Location Identifier (525)	Fixture Identifier (720)
301	table 1
⋮	⋮
301	wall 56
⋮	⋮
305	wall 56

751

Location Identifier (525)	table 1 (720)	table 1a	table 2	...	wall 56
301	1	0	0	...	1
302	0	1	0	...	1
303	0	1	1	...	0
304	0	1	0	...	1
305	0	0	0	...	0

FIG. 7

809A

Fixture Identifier: table 1 ← 520

Item Identifier (505)	10/12/2000-11/1/2000 (606)	11/2/2000-11/14/2000	11/15/2000-11/24/2000
921	5 ← 508	10	12
922	3	8	6
⋮	⋮	⋮	⋮
949	8	12	22

750

Location Identifier (525)	Fixture Identifier (720)
301	table 1
⋮	⋮
301	wall 56
⋮	⋮
305	wall 56

809B

Fixture Identifier: table 1a

Item Identifier	10/12/2000-11/1/2000	11/2/2000-11/14/2000	11/15/2000-11/24/2000
921	6	11	9
922	3	8	13
⋮	⋮	⋮	⋮
949	15	20	31

809C

Fixture Identifier: table 2

Item Identifier	10/12/2000-11/1/2000	11/2/2000-11/14/2000	11/15/2000-11/24/2000
921	8	13	11
922	3	8	13
⋮	⋮	⋮	⋮
949	15	20	31

751

Location Identifier (525)	table 1 (720)	table 1a	table 2	...	wall 56
301	1	0	0	...	1
302	0	1	0	...	1
303	0	1	1	...	0
304	0	1	0	...	1
305	0	0	0	...	0

809D

Fixture Identifier: wall 56

Item Identifier	10/12/2000-11/1/2000	11/2/2000-11/14/2000	11/15/2000-11/24/2000
102310	8	11	13
⋮	⋮	⋮	⋮
102490	15	20	31

FIG. 8

7/7

910A

Setup Identifier: a10001 ← 940

Item Identifier (505)	10/12/2000-11/1/2000 (606)	11/2/2000-11/14/2000	11/15/2000-11/24/2000
921	5 ← 508	10	12
922	3	8	6
⋮	⋮	⋮	⋮
949	8	12	22

910B

Setup Identifier: a10002

Item Identifier	10/12/2000-11/1/2000	11/2/2000-11/14/2000	11/15/2000-11/24/2000
921	6	11	9
922	3	8	13
⋮	⋮	⋮	⋮
949	15	20	31

910C

Setup Identifier: a10003

Item Identifier	10/12/2000-11/1/2000	11/2/2000-11/14/2000	11/15/2000-11/24/2000
921	8	13	11
922	3	8	13
⋮	⋮	⋮	⋮
949	15	20	31
⋮	⋮	⋮	⋮

910D

Setup Identifier: c12500

Item Identifier	10/12/2000-11/1/2000	11/2/2000-11/14/2000	11/15/2000-11/24/2000
102310	5	11	13
⋮	⋮	⋮	⋮
102490	15	20	31

970

Setup Identifier (940)	Fixture Identifier (720)
a10001	table 1
a10001	rounder 2
⋮	⋮
a10001	wall 1
⋮	⋮
a10003	35 Bay

971

Setup Identifier	Fixture Identities (720): table 1	table 1a	table 2	...	35 Bay
a10001 ← 901	1	0	0	...	1
a10002	0	1	0	...	1
a10003	0	0	1	...	0
a10004	0	0	0	...	1
⋮	⋮	⋮	⋮	⋮	⋮
c12500	0	0	0	...	1

980

Location Identifier (525)	Fixture Identifier (720)
301	table 1
⋮	⋮
301	wall 56
⋮	⋮
305	wall 56

981

Location Identifier (525)	Fixture Identities (720): table 1	table 1a	table 2	...	35 Bay
301	1	0	0	...	1
302	0	1	0	...	0
303	0	1	1	...	0
304	0	1	0	...	1
305	0	0	0	...	0

FIG. 9